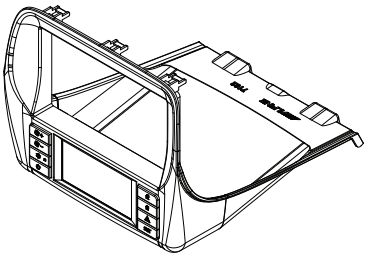
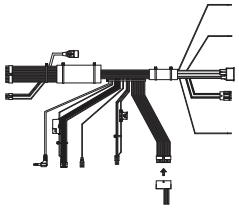
Mobile Media Solutions

Perfect Fit 2010-Present Chevrolet Camaro Installation Manual

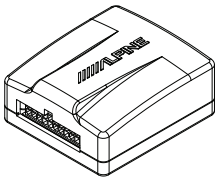
KTX-CMO



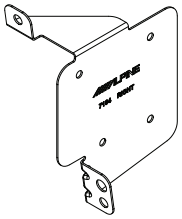
Camaro Dash Kit x 1
(Panel 7161/7162 (Pre-assembled Panel)



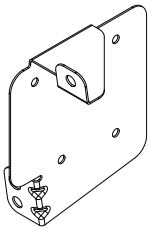
Power Harness x 1



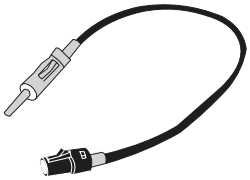
OnStar Module x 1
(KCX-OSMGM only)
(Sold Separately)



Right Bracket x 1
(Panel 7164)



Left Bracket x 1
(Panel 7163)



Antenna Adapter

Introduction

This KTX-CMO Perfect Fit installation kit is for 2010+ Chevrolet Camaro's. Included are all the parts needed to install your Alpine INA-NAV-10, INA-NAV-20, INA-W900, INA-W900BT, or INA-W910 Audio Video Navigation system in a 2010+ Chevrolet Camaro. KTX-CMO Perfect Fit installation kit also includes an interface module that allows the Camaro's steering wheel remote control of the Alpine system. Refer to the individual instruction sections of this manual to remove your vehicle's factory radio and assemble the kit.

Caution! Disconnect your vehicle's negative battery terminal before the installation to help prevent electrical damage. We recommend the use of a digital multimeter to check vehicle wiring. Do not use a test light! A test light or grounded wire probe can cause damage to the vehicle's computer and/or diagnostic systems. Avoid all factory airbag wiring. Airbags can accidentally deploy causing serious injury or even death.

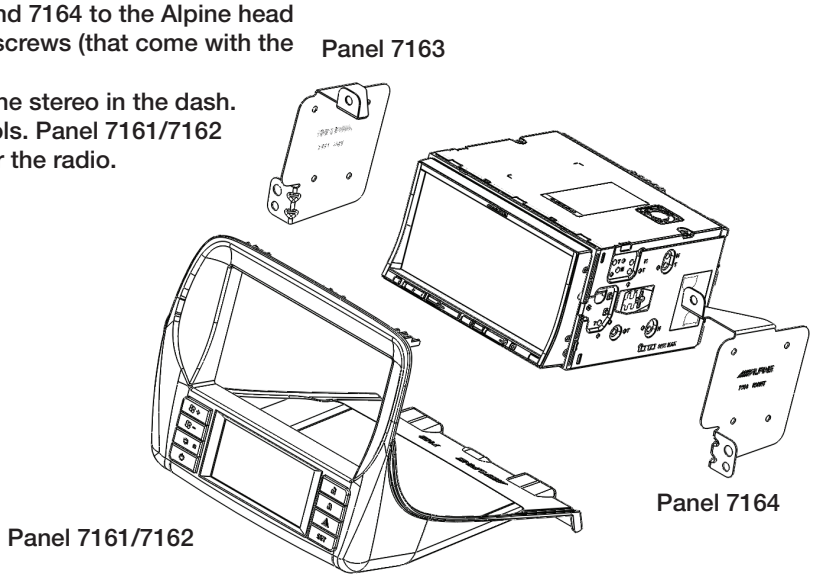
Notes:
- See your vehicle's instructions for any special tools your installation might require.
- Read all instructions accompanying your car stereo for proper wiring and mounting instructions

Factory Stereo Removal

1. Tum ignition to the ON position and shift vehicle into drive.
NOTE: In order to complete Step 1 the baattery must be connected. After completing step 1, disconnect the negative battery cable and proceed to step 2.
2. Use a Panel-safe Removal Tool (PRT) to unclip Auxiliary gauge panel, unplug and remove.
3. Use a small flathead screw driver, unclip screw cap located on the lower front aide of the shift knob.
4. Extract (1) T-20 Torx screw to remove gear shift knob.
5. Extract (4) 7mm screws securing shifter console, then with pick tool, unclip (1) clip located on each side under the shifter console, unplug and remove.
6. Use PRT to unclip each side panel from the center console.
7. Extract (1) Phillips head screw from each side located on the outer area of the center console.
B. Extract (1) Phillips head screw from each side of center console's rear panel, lift and pull back to remove.
9. Extract (3) Phillips head screws behind center console's armrest.
10. Extract (1) Phillips head screw in front of beverage holder.
11. Use PRT to unclip 12V and USB/3.5mm housing inside the armrest, unplug and remove.
12. Use PRT to unclip center console and remove.
13. Extract (2) 7mm screws securing radio panel located under and to the rear of A/C controls. Use PRT to unclip radio fascia panel, unplug, and remove.
14. Extract (4) 7mm screws securing radio chassis/ Drive assembly, unplug, lift away and remove

Stereo Assembly

1. Attach panels 7163 and 7164 to the Alpine head unit using the supplied screws (that come with the head unit).
2. Connect and mount the stereo in the dash.
3. Connect HVAC controls. Panel 7161/7162 mounts to the dash over the radio.



Steering Wheel Controls

Steering Wheel Control Operation (when vehicle is equipped)

1. Seek/Track Up (click SRC button upward)
2. Activate OnStar® (If equipped)*
3. De-activate OnStar®/ Mute Audio
4. Seek/Track Down (click SRC button downward)
5. SRC (Source) - Press in to change source
6. Volume Down
7. Volume Up

*Consult vehicles original owner's manual for GM OnStar® instructions

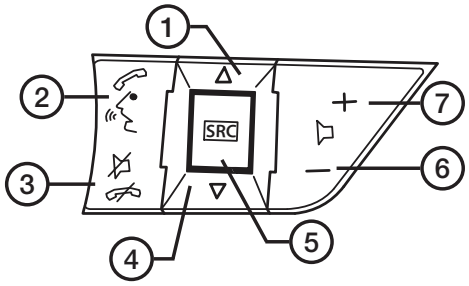
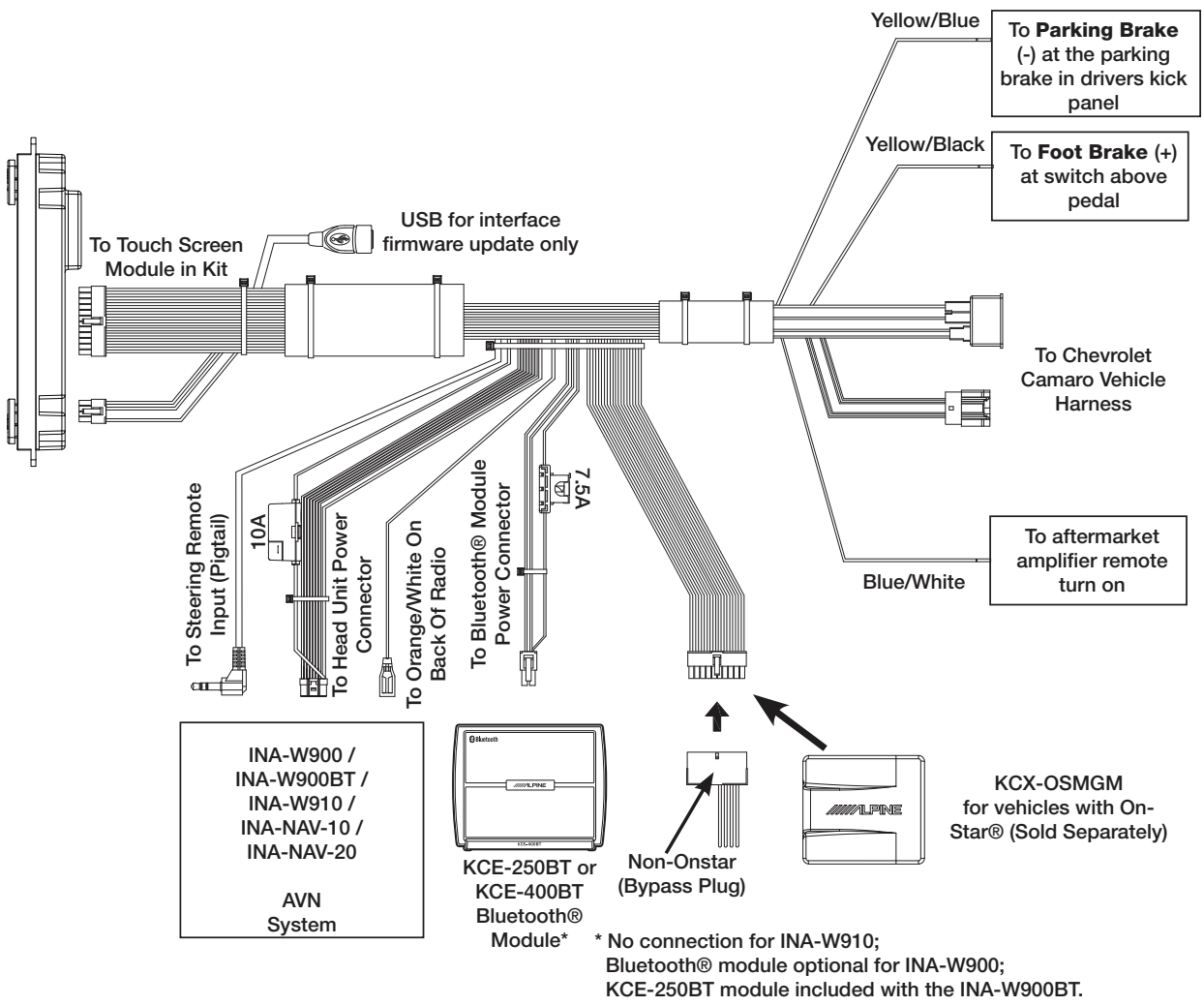


Figure 6
Steering Wheel Control Layout

Wiring Harness Diagram


Yellow/Blue
To **Parking Brake** (-) at the parking brake in drivers kick panel
Yellow/Black
To **Foot Brake** (+) at switch above pedal
USB for interface firmware update only
To Touch Screen Module in Kit
To Chevrolet Camaro Vehicle Harness
To aftermarket amplifier remote turn on
Blue/White
To Steering Remote Input (Pigtail)
10A
To Head Unit Power Connector
To Orange/White On Back Of Radio
To Bluetooth® Module Power Connector
7.5A
INA-W900 / INA-W900BT / INA-W910 / INA-NAV-10 / INA-NAV-20
AVN System
KCE-250BT or KCE-400BT Bluetooth® Module*
Non-Onstar (Bypass Plug)
KCX-OSMGM for vehicles with On-Star® (Sold Separately)

* No connection for INA-W910;
Bluetooth® module optional for INA-W900;
KCE-250BT module included with the INA-W900BT.

Vehicle Startup

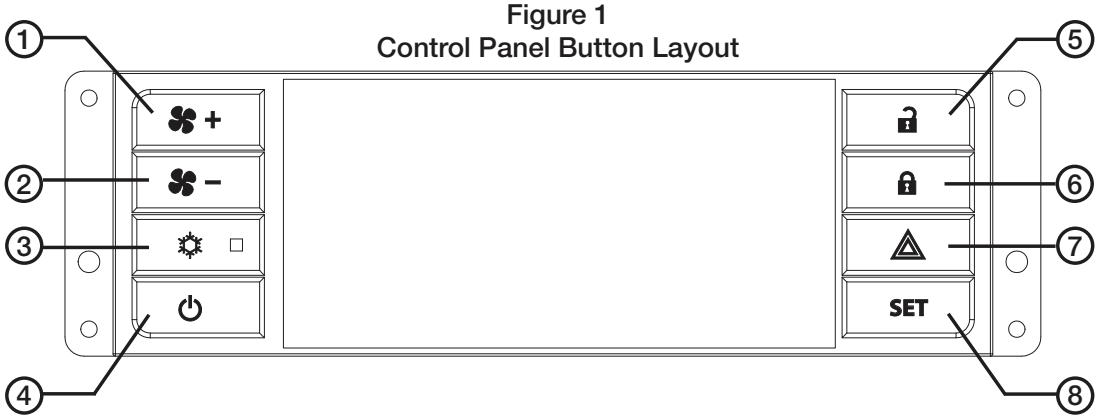
Connection And Initialization Procedure:
IMPORTANT NOTE! The connection and startup process below must be followed, or the HVAC touch screen system may not operate properly.

1. Re-route factory HVAC connector to radio cavity.
2. Connect factory radio connector to Alpine harness.
3. Connect factory HVAC connector to Alpine harness.
4. IF USING OPTIONAL OnStar® MODULE: Remove looped 20 pin connector from Alpine harness and connect OnStar® module*.
5. Move OnStar® module, radio connector, and HVAC connector to the left of the radio cavity.
6. Route the 8 and 24 pin connectors of Alpine harness to original location of HVAC connector.
7. Connect the Alpine harness along with antenna and all other accessories to the aftermarket radio and insert into radio cavity.
8. Enter the car and shut all doors and remove the key.
9. Wait approximately 5 minutes for the vehicles computer to enter a sleep state (approx. 2 minutes after dome light turns off).
1 0. You may now connect the 24 pin and 8 pin connectors to the new HVAC controller.
11. While still in the vehicle with the doors shut, insert the key and start the vehicle's engine.
THE OnStar® MODULE MUST BE CONNECTED BEFORE THE NEW HVAC CONTROLLER CAN BE CONNECTED.

Climate & Convenience Controls

The Touch Screen Interface replaces the factory climate, convenience and personalization controls built into the OEM Factory GM Radio system. This solution provides improved ergonomics while adding touch screen capabilities unique to this system. Read the following sections to familiarize yourself with the operating controls and settings.

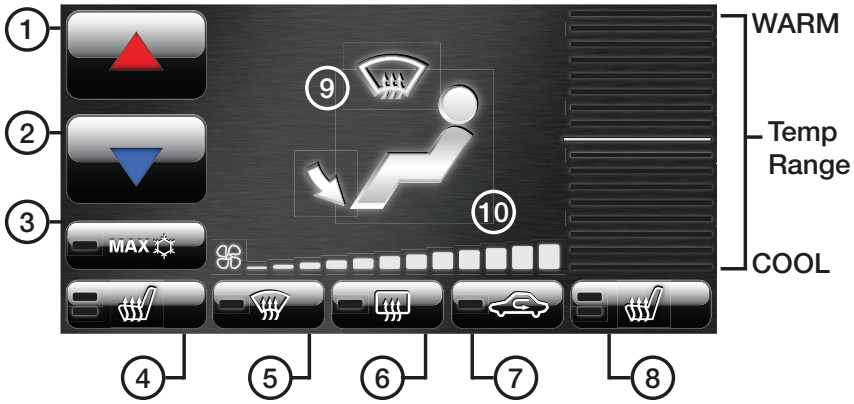
Figure 1
Control Panel Button Layout



1. Fan Speed Up
2. Fan Speed Down
3. Air Conditioning On/Off
4. Climate Power On/Off
5. Power Unlock
6. Power Lock
7. Hazard Warning Flashers
8. SET (Settings)

Figure 2
Home TFT Color Touch Screen Layout

1. Air Temp Up
2. Air Temp Down
3. Max A/C On/Off
4. Driver's Heated Seat
5. Defrost
6. Rear Defog
7. Recirculate
8. Pass Heated Seat
9. Vent Mode
10. Fan Speed Indicator



Power
Press the Power button (Fig.1, #4) to toggle the climate controls On or Off.

Power Door Lock Control
Press the Lock button (Fig.1, #6) to lock both doors.
Press the Unlock button (Fig.1, #5) to unlock both doors.

Hazard Warning Flashers
Press the Lock button (Fig.1, #6) to lock both doors.
Press the Unlock button (Fig.1, #5) to unlock both doors.

Settings Menu Access
Press the SET button (Fig.1, #8) to access touch screen, vehicle features and other settings. See "Display Screen" or "Vehicle Feature/Settings" sections for additional information.
"Display Screen" or "Vehicle Feature/Settings" sections for additional information.

Climate & Convenience Controls (Continued)

Fan Speed Control

To increase fan speed, press the fan speed UP button on the control panel (pg. 4, Fig. 1, #1). On the color TFT touch screen a graphic level indicator will move up indicating the current fan speed (pg. 4, Fig. 2, #1 0). There are a total of 12 fan speed increments from completely off to maximum.

To decrease fan speed, press the fan speed DOWN button on the control panel (pg. 4, Fig. 1, #2). On the color TFT touch screen a graphic level indicator will move down indicating the current fan speed (pg. 4, Fig. 2, #1 0). Continue pressing the DOWN button to turn fan completely off.

Temperature Control

Use the UP and DOWN arrows (pg. 4, Fig. 2, #1 & #2) on the color TFT touch screen to adjust vehicle air temperature. Touch the Red <Up> arrow to increase air temp. Touch the Blue <Down> arrow to decrease air temp. The temperature indicator will move up or down indicating the current temperature level. The temperature range is color-coded: Red indicates warmer air and Blue indicates cooler air.

Air Flow / Vent Control

Touch the vent control mode (pg. 4, Fig. 2, #9) on the color TFT touch screen to toggle through the current vent mode. Graphics are displayed according to the selected vent and airflow pattern.

Air is directed to the instrument panel vent outlets

Air is directed to the floor vent outlets

Air is directed to the instrument panel vent outlets and the floor vent outlets

Air will be directed to the windshield and floor and/or side vent outlets

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Defog / Defrost Control

Touch the Defog (pg. 4, Fig. 2, #5) on the Color TFT touch screen to turn Defog On or Off. This configuration clears windows of fog or moisture. Air will be directed to the windshield and floor outlets.

Touch the Rear window defogger (pg. 4, Fig. 2, #6) on the Color TFT touch screen to turn the rear window defogger on or off. The rear window defogger turns off automatically 12 minutes. It can also be turned off by turning the ignition to ACC (ACCESSORY) or OFF position. If turned on again it runs for 6 minutes before turning off. At higher vehicle speeds, the rear defogger can stay on continuously.

Note: For best results clear the windows of snow or ice before defrost settings. DO NOT OPERATE VEHICLE UNTIL WINDOWS ARE CLEAR!

Air Conditioning

To turn the air conditioning ON or OFF press A/C button on the control panel (pg. 4, Fig. 1, #3). A Blue indicator light turns on. If the fan is turned off or the outside temperature falls below freezing, the air conditioning will not work. The air conditioning might automatically come on when Defrost mode is selected.

MAX

Touch the MAX A/C button (pg. 4, Fig. 2, #3) on the color TFT touch screen to turn on Max A/C. Maximum cooling will occur with the temperature is adjusted to lowest cold setting and the Fan speed is set at maximum. MAX A/C is used to cool the car down as quickly as possible. Touch the Max A/C button again to return to the previous Fan speed and temp setting.

Touch the Re-circulate button (pg. 4, Fig. 2, #7) on the color TFT touch screen to turn on recirculation. Air will be re-circulated inside the vehicle. This mode helps to quickly cool the air inside the vehicle or prevent outside air and odors from entering. Operating recirculation mode while the A/C is off increases humidity and may cause the windows to fog. Recirculation is not available in the Defrost or Defog modes.

Heated Seats

Touch the driver's seat heater (pg. 4, Fig. 2, #4) button on the color TFT touch screen to turn on the driver's seat heater. The engine must be running to use heated seats. A Button graphic will show the level of heat selected: Two lights = high or one light = low). Press the button repeatedly to cycle through the temperature settings or to turn the heated seat OFF. Touch the passenger's seat heater (pg. 4, Fig. 2, #8) button on the color TFT touch screen to turn on the Passenger's seat heater. The engine must be running to use heated seats. A button graphic will show the level of heat selected: Two lights = high or one light = low). Press the button repeatedly to cycle through the temperature settings or to turn the heated seat OFF.

Display Screen Settings

Figure 3
Settings Home Screen Layout

1. Display Settings
2. Car Settings
3. Back/Return
4. Day Theme Setting (Override)
5. Night Theme Setting (Override)
6. Auto Theme Setting (Vehicle-controlled)
7. Brightness Control (TFT Screen)
8. Overview Window

Other: Software version number appears on lower left corner of set screen

SETTINGS MENU
Press the “Set” button (Fig. 1, #8) on the control panel to access the user controlled features and settings. The “Settings” Home Screen will appear (Fig. 3) above.

DISPLAY TAB (Default Settings Screen)
Touch the “Display” Tab (Fig. 3, #1) to access various settings for the Touch Screen.

CAR TAB
Touch the “Car” Tab (Fig. 3, #2) to go the second settings menu for access to vehicle comfort and convenience features. See next section “Vehicle Feature Settings”.

RETURN BUTTON
Touch the return button (Fig. 3, #3) to exit settings mode.

DAY THEME
Touch the “DAY” button (Fig. 3, #4) to assign Daytime color theme for the Color TFT touch screen. This setting will keep the display with light colored background regardless of outside environment (overrides Factory control).

NIGHT THEME
Touch the “NIGHT” button (Fig. 3, #5) to assign Nighttime color theme for the Color TFT touch screen. This setting will keep the display with dark colored background regardless of outside environment (overrides Factory control).

AUTO THEME (Default)
Touch the “AUTO” button (Fig. 3, #6) to assign Automatic (Factory) control of the TFT color theme. This setting will keep Data-controlled switching color theme according to the outside environment. (Light for Daytime / Dark for Nighttime).

BRIGHTNESS
Touch the”+”/”-” Brightness buttons (Fig. 3, #7) to adjust the Brightness of the Color TFT touch screen.

PREVIEW WINDOW
Provides a quick preview of DAY/NIGHT setting changes.

Vehicle Feature Settings

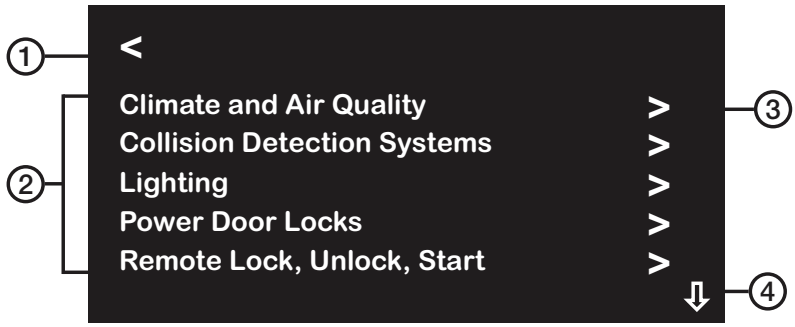
Tile color TFT touch screen interface is used to access the vehicle's built-in customization features.

VEHICLE SETTINGS MENU

Press the "Set" button (see page 4, Fig. 1, #8) on the control panel to access the user controlled features and settings. lhe "Settings• Home Screen will appear (see page 6, Fig. 3) • Press the CAR button (see page 6, Fig. 3, #2) to access the vehicle features list as shown in Fig. 4 (below).

Figure 4
Vehicle Settings
Home Screen Layout

1. Back Button
2. Vehicle Feature List
3. Select/Next Button
4. Scroll Down Button



Feature Title	Description	Setting 1	Setting 2	Setting 3	Setting 4
Climate and Air Quality	Heated Seats When Remote Starting	On	Off		
Collision/ Detection Systems	Park Assist: Ultrasonic Object Sensors	On	Off		
Lighting	Vehicle Locator	On	Off		
Lighting Cont.	Exit Lighting	Off	30 Seconds	1 Minute	2 Minutes
Power Door Locks	Anti-Lockout	On	Off		
Power Door Locks Cont.	Auto Door Lock/ Unlock	On	Off		
Power Door Locks Cont.	Delayed Door Lock	On	Off		
Remote Lock/ Unlock/Start	Unlock Feedback (Lights)	On	Off		
Remote Lock/ Unlock/Start Cont.	Lock Feedback (Lights, Horn)	Lights	Lights + Horn Chirp	Horn Chirp Only	Off
Remote Lock/ Unlock/Start Cont.	Door Unlock	Driver's Door First	All Doors		
Aftermarket Radio Type	Sets Steering Wheel Controls	Select: Alpine, Clarion, JVC, Kenwood, Pioneer, Or Sony			
Return To Factory Default	Restore Settings	Yes	No		

Vehicle Feature Settings Continued

Vehicle Feature Details

• Climate And Air Quality
Heated Seats: On or Off when vehicle is remote started

• Collision/Detection Systems
Park Assist features: Enable or Disable the vehicle's ultrasonic bumper object sensors (Depends on vehicle options/equipment)

• Lighting
Exit Lighting: Set exterior lights delay when exiting vehicle at night
Vehicle Locator Lights: Set exterior lights ON or OFF when unlocking/approaching at night

• Power Door Locks
Unlocked Door Anti Lockout: Prevents vehicle locking if Driver door is open (Helps to prevent keys from being locked inside).
Auto Door Unlock: Vehicle unlocks when Shifted into Park (Auto trans) or when Key is removed (Manual Trans)
Delayed Door Lock: Delays door locking

• Remote Lock/Unlock/Start
Unlock Feedback (Lights): Enable or Disable vehicle's light Flash when Unlocking vehicle with Remote
Locking Feedback: Select the type of audible/visual Lock indicator when Locking vehicle with the Remote - Lights Flash, Lights and Horn blip, or Horn blip only
Door Unlock Options: Selectable unlocking when using remote: Driver's door first or Both doors at once.
Remote Vehicle Starting: Enable or Disable Remote Vehicle Starting

• Aftermarket Radio Type (Steering Wheel Control Output)
Select type of Aftermarket Radio for steering wheel interface configuration (Pioneer, Sony, Alpine, Kenwood, Clarion, JVC)

• Return to Factory Settings
Restores all customized settings to Factory default: Yes or No

How To Change Feature Settings

1. Press the "SET" button to access the Configuration/Settings Menu (see page 4, Fig. 1, #B)
2. Touch the "CAR" button on the TFT screen (page 8, Fig. 3, #2) to bring up the car Feature list.
3. Touch the name of the Feature you would like to access/change the settings (page 7, Fig. 4 #2). Note: you may need to scroll down to view all options.
4. Touch the option valUe you wish to change and the selected value will turn to GREEN or RED color text.
5. Touch the Back button (Fig. 5, f1, above) to go back one level or view other features.

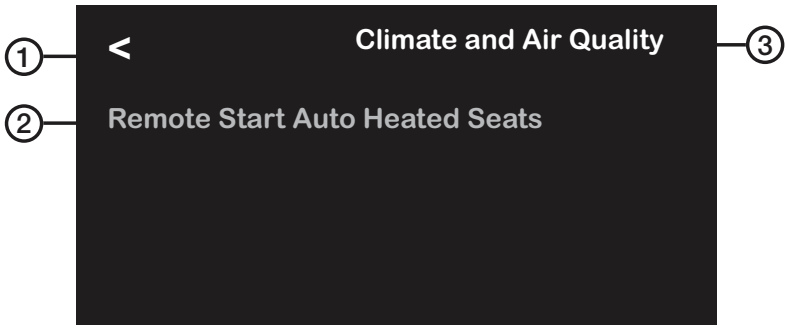


Figure 5
Vehicle Feature Screen Layout

1. Back Button
2. Vehicle Feature Value
3. Selected Vehicle Feature

Liability Disclaimer

Due to changes in design and manufacturing that may occur with your specific vehicle, it is important that you do not rely solely on vehicle information contained in this installation manual, such as dash disassembly, wire harness, and codes. Such information should be confirmed with the vehicle manufacturer. Alpine Electronics, Inc. and its affiliated companies is not responsible for damage that may occur to you or your automobile during the installation of the Perfect Fit Kit.

If you have any further questions, feel free to contact Alpine Tech Support at 1-800-NAV-HELP.

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